

**2021 IEEE Standards Association (IEEE-SA) Ethernet  
& IP @ Automotive Technology Hybrid Event Week  
3-4 November 2021**

**PRESENTATION AND EXHIBITION  
DRAFT PROGRAM**

**The program schedule will be finalized in the coming weeks**

**Last Updated: 12 August 2021**  
*Subject to change without notice*

## 3-4 November 2021 Presentation Titles

	<p><b>Welcome and Opening Remarks</b>            Rudi Schubert (IEEE Standards Association)            Opening: Kirsten Matheus (BMW)</p>
	<p><b>Physical Layer, PHY, Switch, <math>\mu</math>C</b></p>
	<p>The 10BASE-T1S OA-3p Interface -Enabling Advantages for the All-Ethernet Vehicle</p>
	<p>EMC Challenges when Using a Shield with Automotive High-Speed Communication</p>
	<p>ESD Protection for Automotive Ethernet Applications</p>
	<p>Technical Feasibility of Glass Optical Fibers for Automotive Ethernet</p>
	<p><b>AVB/TSN, Higher Layer Protocols, Software</b></p>
	<p>Use of TSN for Wheel Sensor Data in a Zonal Architecture</p>
	<p>How to achieve redundant time synchronization using 802.1AS-2020 features for sensor fusion and autonomous driving scenarios</p>
	<p>The "Free Rider Principle" for Low-Bandwidth Flows in High Line-Rate Networks</p>
	<p>Arbitrating the fight between 802.1Q TSN shapers</p>
	<p>Status Quo of Dynamic Network Management with YANG-based Configuration Models</p>
	<p>Smart Switches in AUTOSAR Eco Systems: Roles and Software Architecture</p>

	Communication management in automotive service-oriented architectures
	What is the conqueror in the SOA platform for the future in-vehicle networks?
	<b>Application, Higher Layer Connectivity</b>
	Time-sensitive and mixed-critical control data streams in service-oriented architecture based on Automotive Ethernet
	<b>Network and Architecture</b>
	The Challenges and Solutions of Mixed Data Rate Ethernet Networks
	Reimagining Vehicular Communication using Programmable Data Plane Technologies
	<b>Validation and Test</b>
	Testing PAM4 signaling for 10GBASE-T1Automotive Ethernet
	Analysis of a low-cost gigabit diagnostic interface
	<b>Safety and Security</b>
	Automotive MACsec Architecture